

1-Tetradecanol, methyl ether

Other names:	Methyl tetradecyl ether
Inchi:	InChI=1S/C15H32O/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-16-2/h3-15H2,1-2H3
InchiKey:	WBALMRMHNRFSF-UHFFFAOYSA-N
Formula:	C15H32O
SMILES:	CCCCCCCCCCCCCCCCOC
Mol. weight [g/mol]:	228.41

Physical Properties

Property code	Value	Unit	Source
gf	-29.58	kJ/mol	Joback Method
hf	-485.15	kJ/mol	Joback Method
hfus	35.79	kJ/mol	Joback Method
hvap	51.39	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	5.334		Crippen Method
mcvol	228.080	ml/mol	McGowan Method
pc	1397.50	kPa	Joback Method
rinpol	1624.10		NIST Webbook
tb	565.02	K	Joback Method
tc	724.37	K	Joback Method
tf	281.04	K	Joback Method
vc	0.893	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	589.19	J/mol×K	565.02	Joback Method
cpg	607.53	J/mol×K	591.58	Joback Method
cpg	625.19	J/mol×K	618.14	Joback Method
cpg	642.19	J/mol×K	644.69	Joback Method
cpg	658.53	J/mol×K	671.25	Joback Method
cpg	674.23	J/mol×K	697.81	Joback Method
cpg	689.31	J/mol×K	724.37	Joback Method
dvisc	0.0036349	Pa×s	281.04	Joback Method

dvisc	0.0014111	Pa×s	328.37	Joback Method
dvisc	0.0006953	Pa×s	375.70	Joback Method
dvisc	0.0004014	Pa×s	423.03	Joback Method
dvisc	0.0002588	Pa×s	470.36	Joback Method
dvisc	0.0001808	Pa×s	517.69	Joback Method
dvisc	0.0001341	Pa×s	565.02	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U333918&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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